

AMENDMENTS TO THE SPECIFICATION

Please replace the first paragraph of the application (added by preliminary amendment filed January 8, 2001) with the following paragraph:

This is a divisional application based on prior pending application Serial No. 09/044,931, filed March 20, 1998, now U.S. Patent No. 6,185,611, which is incorporated by reference herein.

Please replace the section entitled "Related Applications" (page 1, line 1, through page 4, line 4) with the following section:

Related Applications

The following identified U.S. patent applications are relied upon and are incorporated by reference in this application[[]]:

Provisional U.S. Patent Application No. 60/076,048, entitled "Distributed Computing System," filed on February 26, 1998.

U.S. Patent Application No. [[]] 09/044,923, entitled "Method and System for Leasing Storage," ~~bearing attorney docket no. 06502.0011-01000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,263,350.

U.S. Patent Application No. [[]] 09/044,838, entitled "Method, Apparatus, and Product for Leasing of Delegation Certificates in a Distributed System," ~~bearing attorney docket no. 06502.0011-02000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,247,026.

U.S. Patent Application No. [[____]] 09/044,834, entitled "Method, Apparatus and Product for Leasing of Group Membership in a Distributed System," ~~bearing attorney docket no. 06502.0011-03000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,421,704.

U.S. Patent Application No. [[____]] 09/044,916, entitled "Leasing for Failure Detection," ~~bearing attorney docket no. 06502.0011-04000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,016,500.

U.S. Patent Application No. [[____]] 09/044,933, entitled "Method for Transporting Behavior in Event Based System," ~~bearing attorney docket no. 06502.0054-00000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,463,446.

U.S. Patent Application No. [[____]] 09/044,919, entitled "Deferred Reconstruction of Objects and Remote Loading for Event Notification in a Distributed System," ~~bearing attorney docket no. 06502.0062-01000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,272,559.

U.S. Patent Application No. [[____]] 09/044,938, entitled "Methods and Apparatus for Remote Method Invocation," ~~bearing attorney docket no. 06502.0102-00000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,487,607.

U.S. Patent Application No. [[____]] 09/045,652, entitled "Method and System for Deterministic Hashes to Identify Remote Methods," ~~bearing attorney docket~~

~~no. 06502.0103-00000, and filed on the same date herewith~~ March 20, 1998, and now
U.S. Patent No. 6,134,603.

U.S. Patent Application No. ~~[[]]~~ 09/044,790, entitled "Method and
Apparatus for Determining Status of Remote Objects in a Distributed System," ~~bearing~~
~~attorney docket no. 06502.0104-00000, and filed on the same date herewith~~ March 20,
1998, and now U.S. Patent No. 6,598,094.

U.S. Patent Application No. ~~[[]]~~ 09/044,930, entitled "Downloadable
Smart Proxies for Performing Processing Associated with a Remote Procedure Call in a
Distributed System," ~~bearing attorney docket no. 06502.0105-00000, and filed on the~~
~~same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,393,497.

U.S. Patent Application No. ~~[[]]~~ 09/044,917, entitled "Suspension and
Continuation of Remote Methods," ~~bearing attorney docket no. 06502.0106-00000, and~~
~~filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,237,024.

U.S. Patent Application No. ~~[[]]~~ 09/044,835, entitled "Method and
System for Multi-Entry and Multi-Template Matching in a Database," ~~bearing attorney~~
~~docket no. 06502.0107-00000, and filed on the same date herewith~~ March 20, 1998,
and now U.S. Patent No. 6,182,083.

U.S. Patent Application No. ~~[[]]~~ 09/044,839, entitled "Method and
System for In-Place Modifications in a Database," ~~bearing attorney docket no.~~
~~06502.0108, and filed on the same date herewith~~ March 20, 1998.

U.S. Patent Application No. ~~[[]]~~ 09/044,945, entitled "Method and
System for Typesafe Attribute Matching in a Database," ~~bearing attorney docket no.~~

~~06502.0109-00000~~, and filed on the same date herewith March 20, 1998, and now U.S. Patent No. 6,578,044.

U.S. Patent Application No. ~~[[]]~~ 09/044,939, entitled "Apparatus and Method for Providing Downloadable Code for Use in Communicating with a Device in a Distributed System," bearing attorney docket no. ~~06502.0112-00000~~, and filed on the same date herewith March 20, 1998, and now U.S. Patent No. 6,560,656.

U.S. Patent Application No. ~~[[]]~~ 09/044,826, entitled "Method and System for Facilitating Access to a Lookup Service," bearing attorney docket no. ~~06502.0113-00000~~, and filed on the same date herewith March 20, 1998.

U.S. Patent Application No. ~~[[]]~~ 09/044,932, entitled "Apparatus and Method for Dynamically Verifying Information in a Distributed System," bearing attorney docket no. ~~06502.0114-00000~~, and filed on the same date herewith March 20, 1998, and now U.S. Patent No. 6,466,947.

U.S. Patent Application No. 09/030,840, entitled "Method and Apparatus for Dynamic Distributed Computing Over a Network," and filed on February 26, 1998, and now U.S. Patent No. 6,446,070.

U.S. Patent Application No. ~~[[]]~~ 09/044,936, entitled "An Interactive Design Tool for Persistent Shared Memory Spaces," bearing attorney docket no. ~~06502.0116-00000~~, and filed on the same date herewith March 20, 1998.

U.S. Patent Application No. ~~[[]]~~ 09/044,934, entitled "Polymorphic Token-Based Control," bearing attorney docket no. ~~06502.0117-00000~~, and filed on the same date herewith March 20, 1998, and now U.S. Patent No. 6,438,614.

U.S. Patent Application No. [[____]] 09/044,915, entitled "Stack-Based Access Control," ~~bearing attorney docket no. 06502.0118-00000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,138,238.

U.S. Patent Application No. [[____]] 09/044,944, entitled "Stack-Based Security Requirements," ~~bearing attorney docket no. 06502.0119-00000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,226,746.

U.S. Patent Application No. [[____]] 09/044,837, entitled "Per-Method Designation of Security Requirements," ~~bearing attorney docket no. 06502.0120-00000, and filed on the same date herewith~~ March 20, 1998, and now U.S. Patent No. 6,282,652.

Please replace the paragraphs appearing on page 11, lines 6-22, with the following paragraphs:

The lookup service 212 defines the services that are available for a particular Djinn. That is, there may be more than one Djinn and, consequently, more than one lookup service within the exemplary distributed system 100. The lookup service 212 contains one object for each service within the Djinn, and each object contains various methods that facilitate access to the corresponding service. The lookup service 212 and its access are described in greater detail in co-pending U.S. patent application Ser. No. [[____]] 09/044,826, entitled "Method and System for Facilitating Access to a Lookup Service," which has previously been incorporated by reference.

The discovery server 214 detects when a new device is added to the exemplary distributed system 100, during a process known as boot and join or discovery, and when such a new device is detected, the discovery server passes a reference to the lookup service 212 to the new device, so that the new device may register its services with the lookup service and become a member of the Djinn. After registration, the new device becomes a member of the Djinn, and as a result, it may access all the services contained in the lookup service 212 and its registered services may be accessed by other members of the Djinn. The process of boot and join is described in greater detail in co-pending U.S. patent application Ser. No. [[____]] 09/044,939, entitled "Apparatus and Method for providing Downloadable Code for Use in Communicating with a Device in a Distributed System," which has previously been incorporated by reference.

Please replace the paragraph appearing on page 19, lines 10-16, with the following paragraph:

The "notify" method is used to register for event notification. The registration is leased, and the lease expiration request is exact. The concept of a lease is described in greater detail in U.S. patent application Ser. No. [[____]] 09/044,923, entitled "Method and System for Leasing Storage." which has previously been incorporated by reference. The registration is persistent across restarts of the lookup service until the lease expires or is canceled. The event id in the returned EventRegId is unique at least with respect to all other active event registrations at this lookup service with different service templates of transitions.

Please replace the paragraph appearing on page 21, lines 2-9, with the following paragraph:

FIGS. 3A and 3B depict a flowchart of the steps performed when a client, a program running on a particular device, makes use of the lookup service 212. Initially, the device on which the client runs is connected to the Jini distributed system (step 302). Next, the client sends a multi-cast packet containing code for communication with the client (step 304). In this step, the client is performing the discovery protocol as described in further detail in co-pending U.S. patent application Ser. No. [[____]] 09/044,939, entitled "Apparatus and Method for Providing Downloadable Code for Use in Communication With a Device in a Distributed System," which has previously been incorporated by reference.

Please replace the paragraph appearing on page 21, lines 15-21, with the following paragraph:

At some point during the processing of the client, it may decide to add a service to the lookup service (step 308). If it decides to add a service, the client adds a service to the lookup service by invoking the register method, which sends to the lookup service either an object representing the service or a stub containing code and data to facilitate access to the service (step 310). The addition of the stub to the lookup service is described in greater detail in co-pending U.S. patent application Ser. No.

[[____]] 09/044,826, ["]entitled "Method and System for Facilitating Access to a Lookup Service." which has previously been incorporated by reference.

Please replace the paragraph appearing on page 22, lines 7-14, with the following paragraph:

At some point later in the processing of the client, the client may decide to access a service provided by the lookup service (step 316). If a client decides to access a service provided by the lookup service, the client accesses the service by invoking the lookup method, which retrieves from the lookup service either the object or the stub information for the service, and the client then either invokes methods on the object to use the service or uses the stub information to access the service (step 318).

The step is described in greater detail in co-pending U.S. patent application Ser. No.

[[____]] 09/044,826, entitled "Method and System for Facilitating Access to a Lookup Service." which has previously been incorporated by reference.